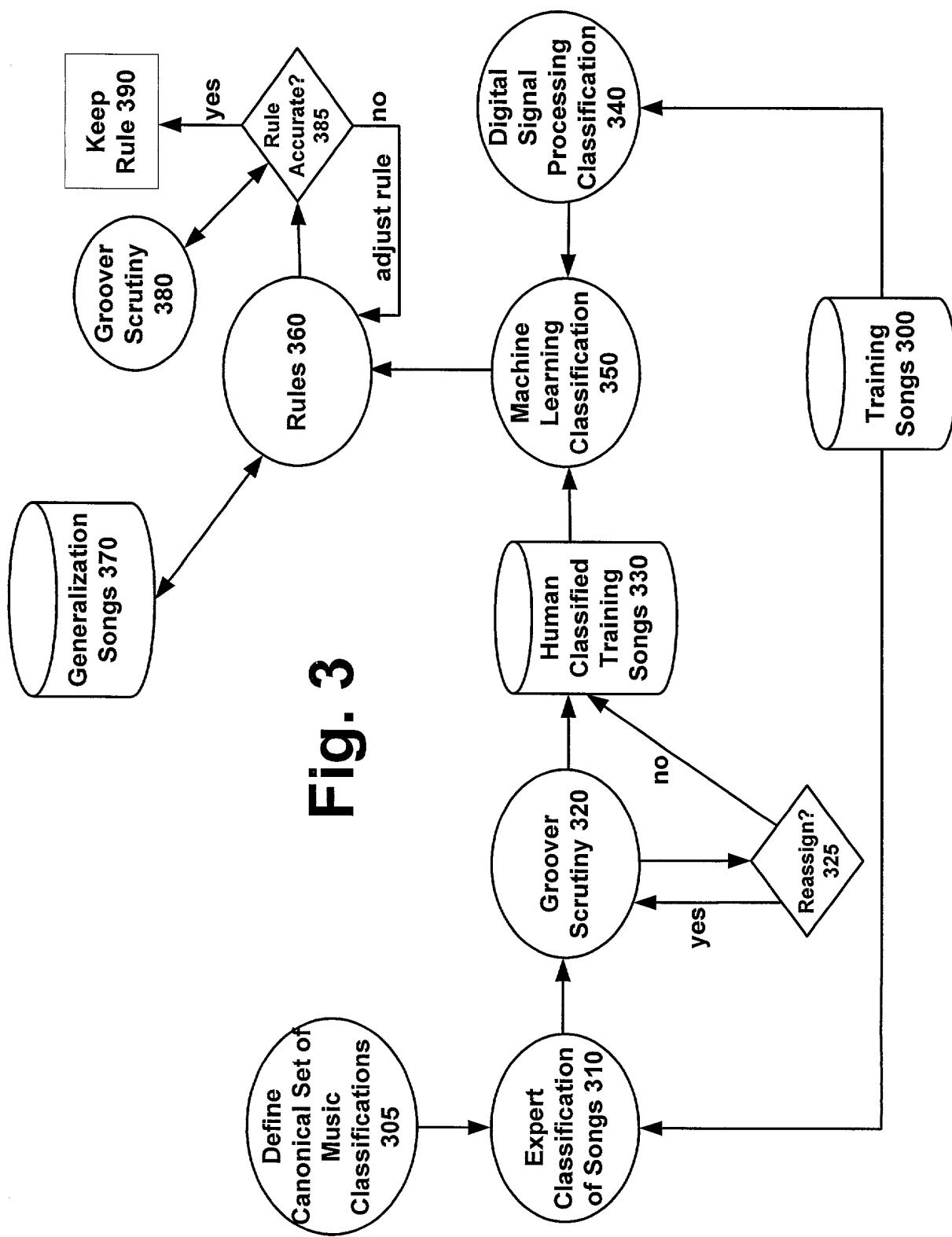
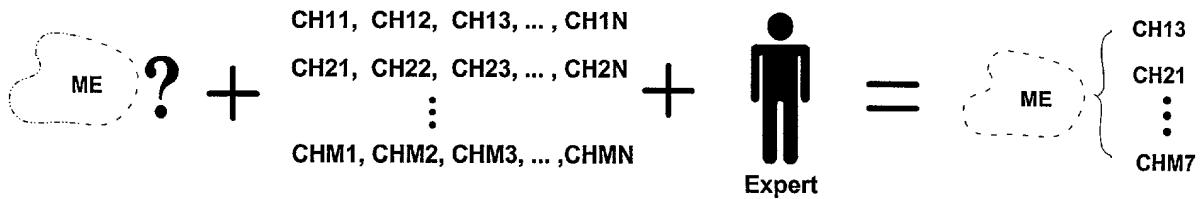


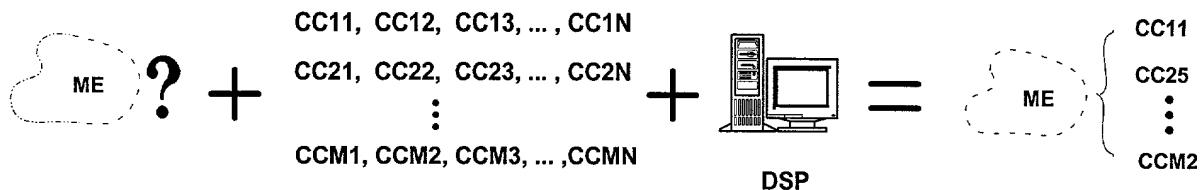
**Fig. 2**



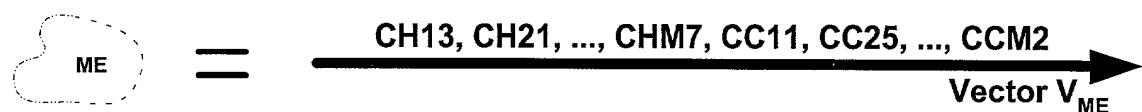
## Fig. 4A



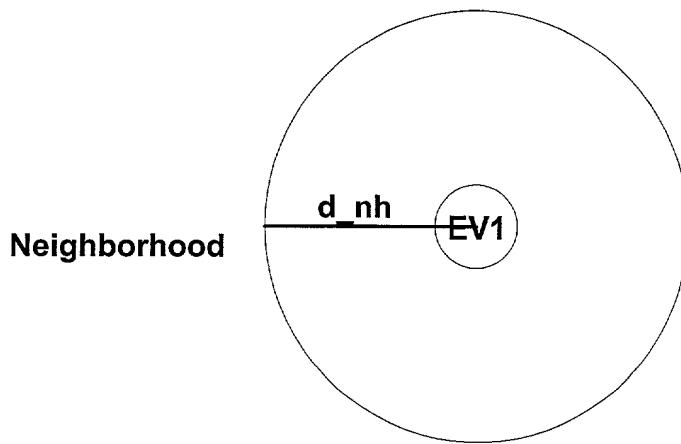
## Fig. 4B



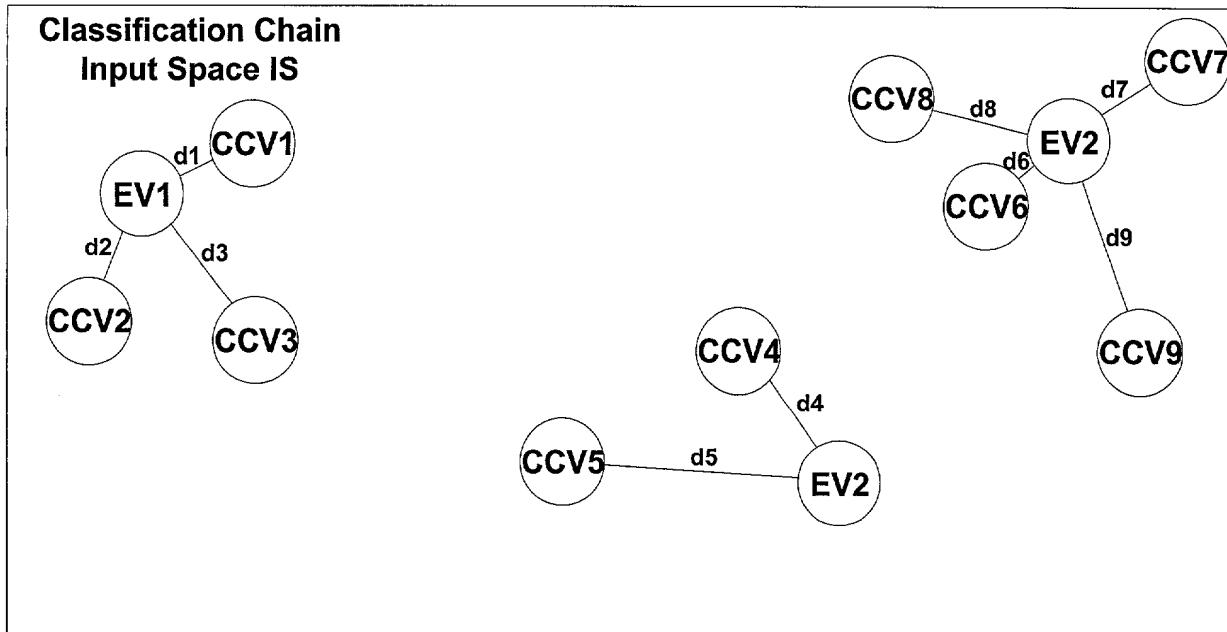
## Fig. 4C



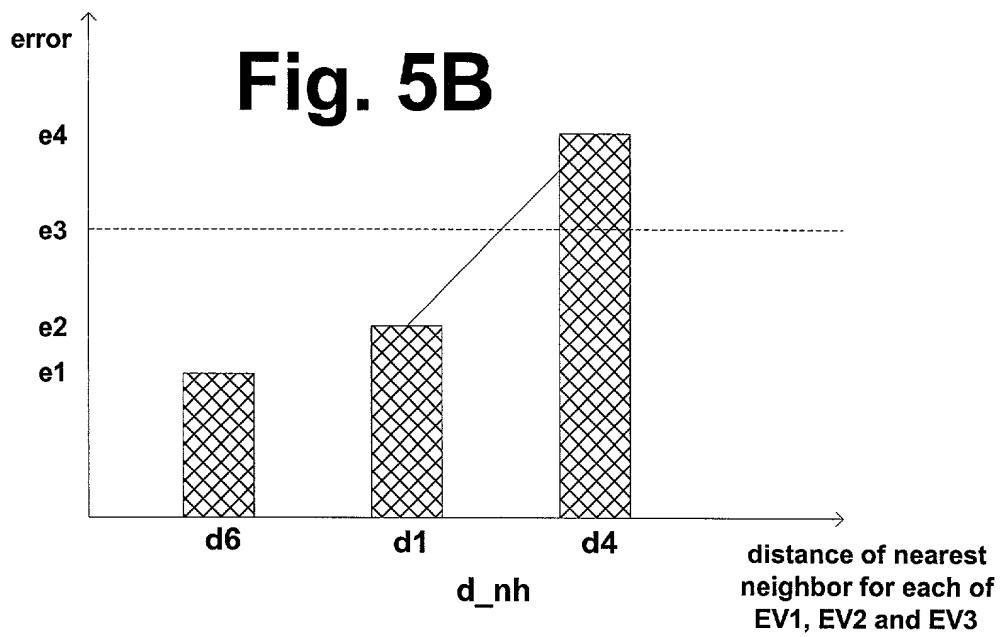
## Fig. 4D



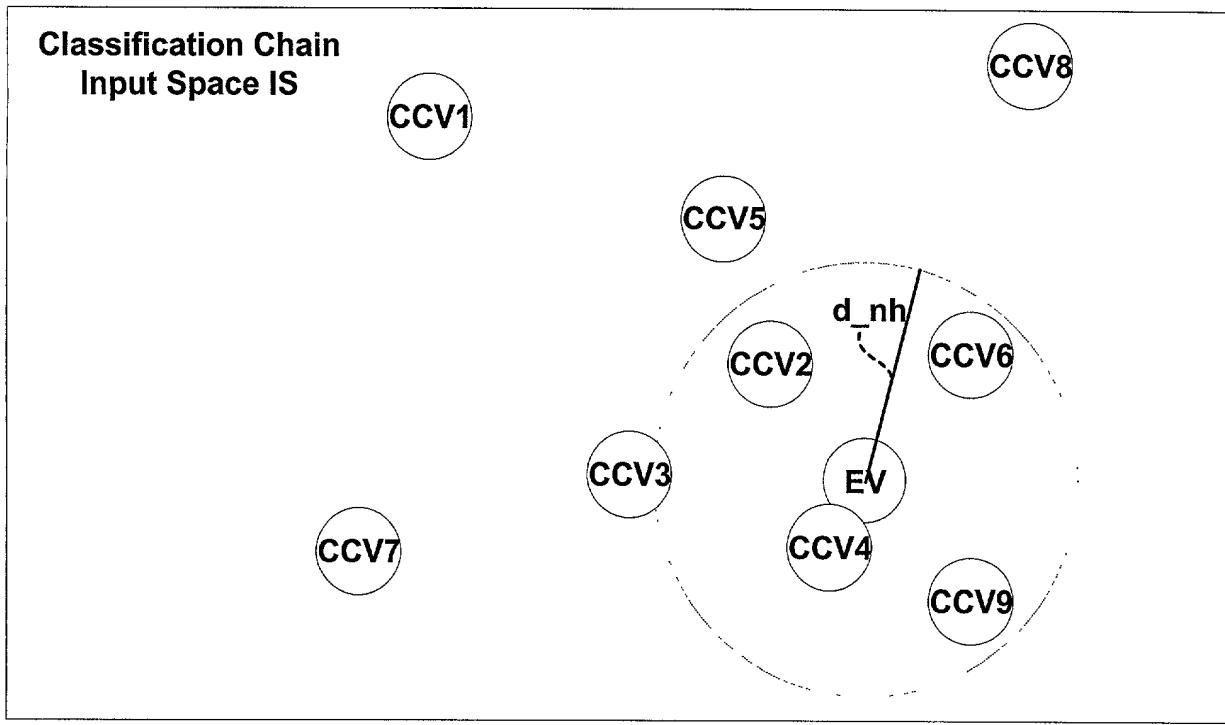
## Fig. 5A



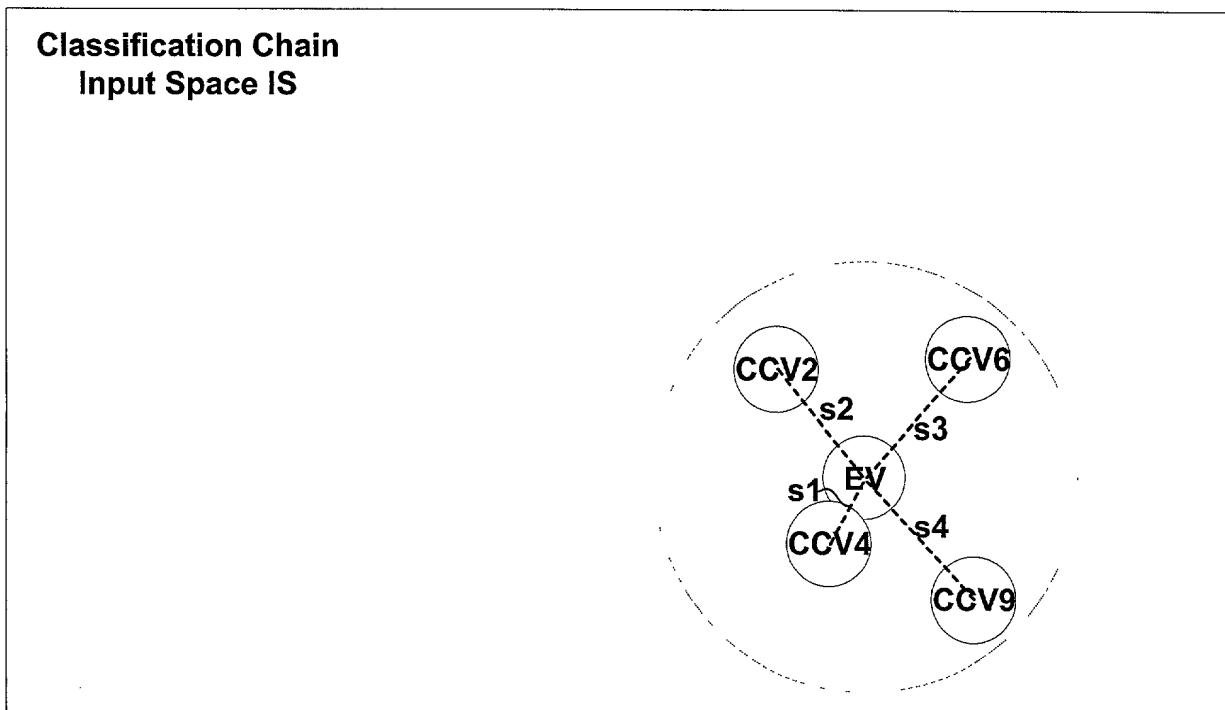
## Fig. 5B



## Fig. 6A



## Fig. 6B



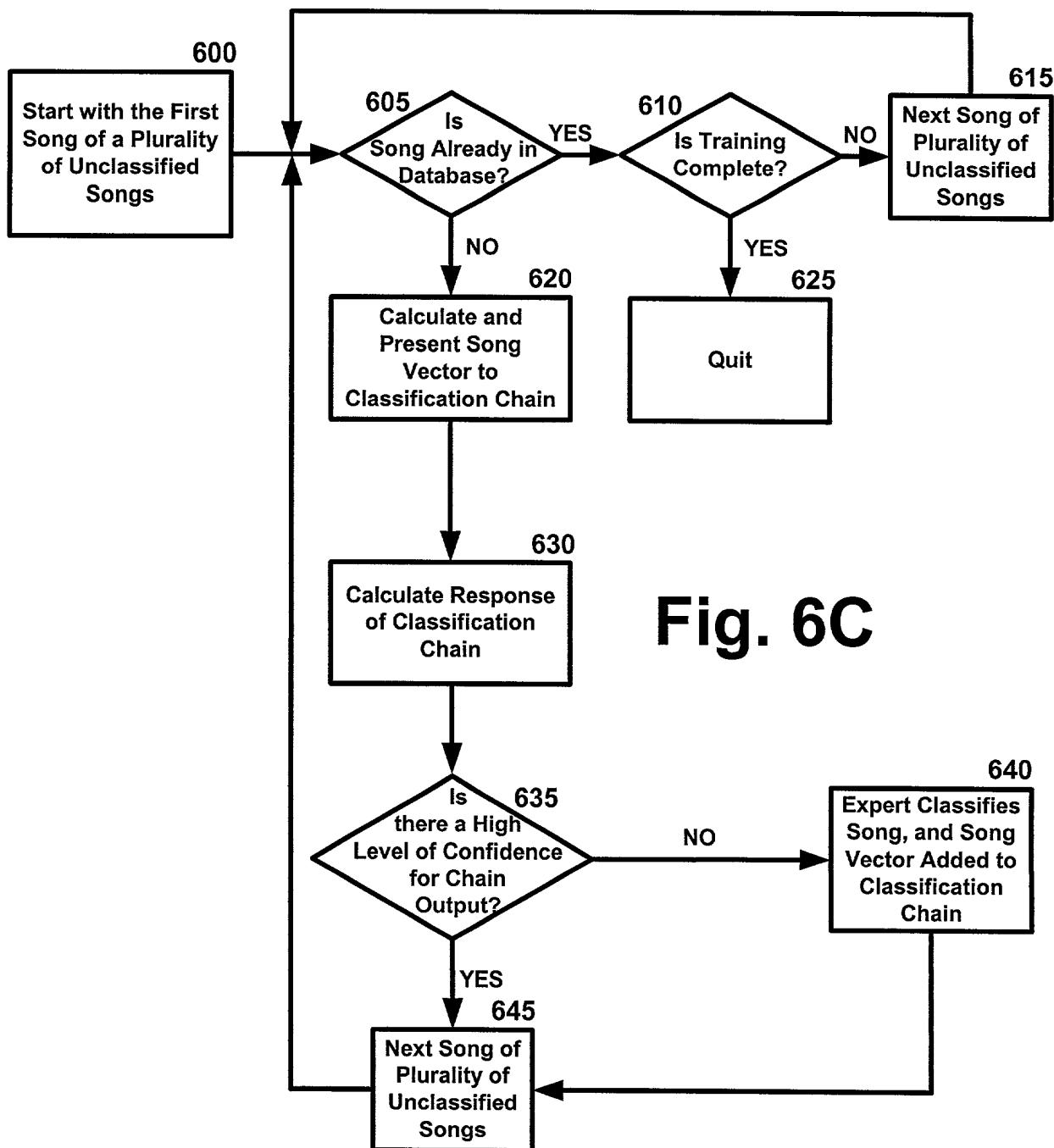


Fig. 6C

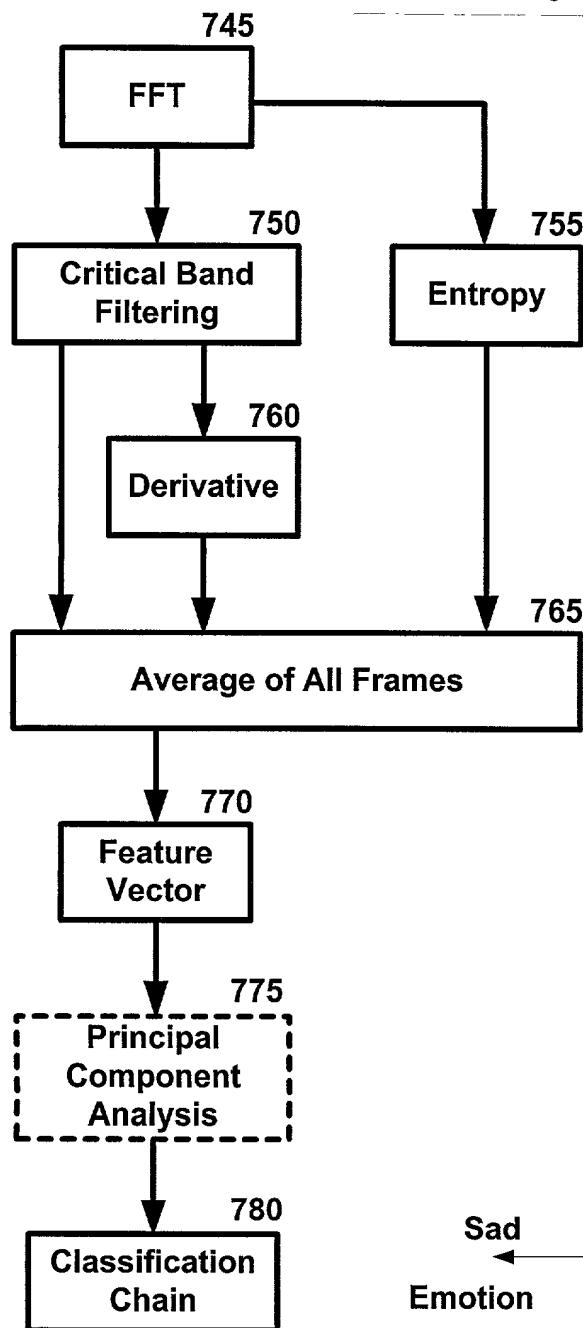


Fig. 7A

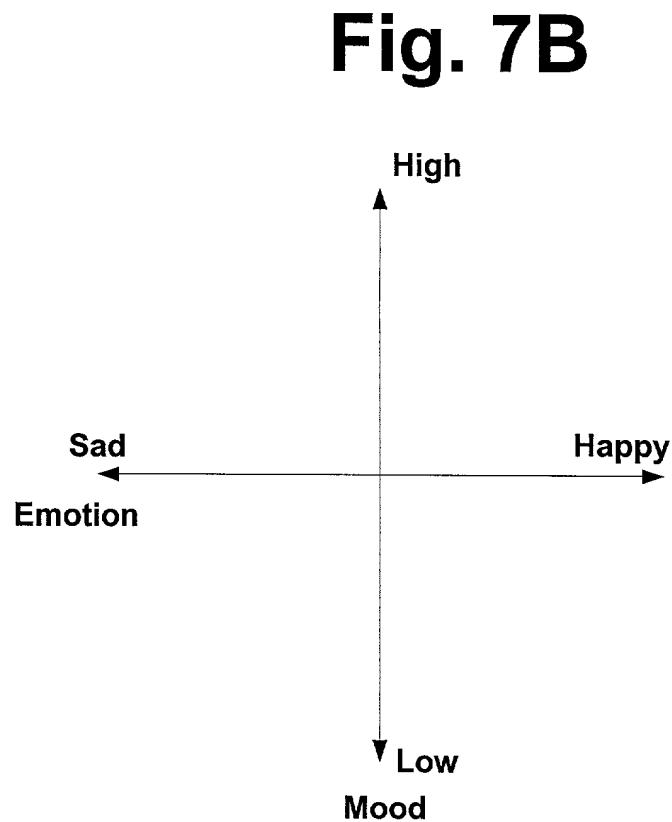
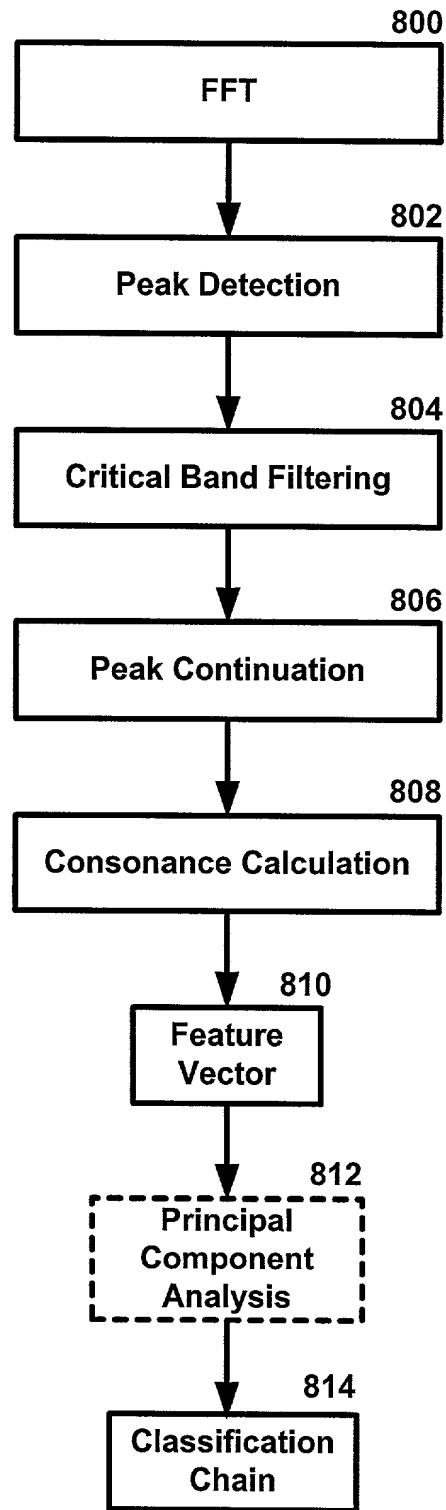


Fig. 7B

## Fig. 8A



816

FrameNum = 1 : NumFrames

818

Zero-pad and Take FFT of Audio Frame

820

Diff\_FFT[ ] = Successive Differences of FFT'd Buffer

822

FFTIndex = 1:NumBins

824

Diff\_FFT(FFTIndex) > 0?

NO

YES

826

Diff\_FFT(FFTIndex+1) < 0?

NO

YES

828

Record Bin & Energy into Output Matrices

NO

830

FFTIndex++  
FFTIndex >= LastBin?

YES

## Fig. 8B

834

Select Top Requested Number of Peaks

836

PeakNum = 1: NumPeaksRequested

838

Nth Order Interpolate Peaks' Positions and Heights

840

PeakNum++  
PeakNum > NumPeaksRequested?

NO

YES

842

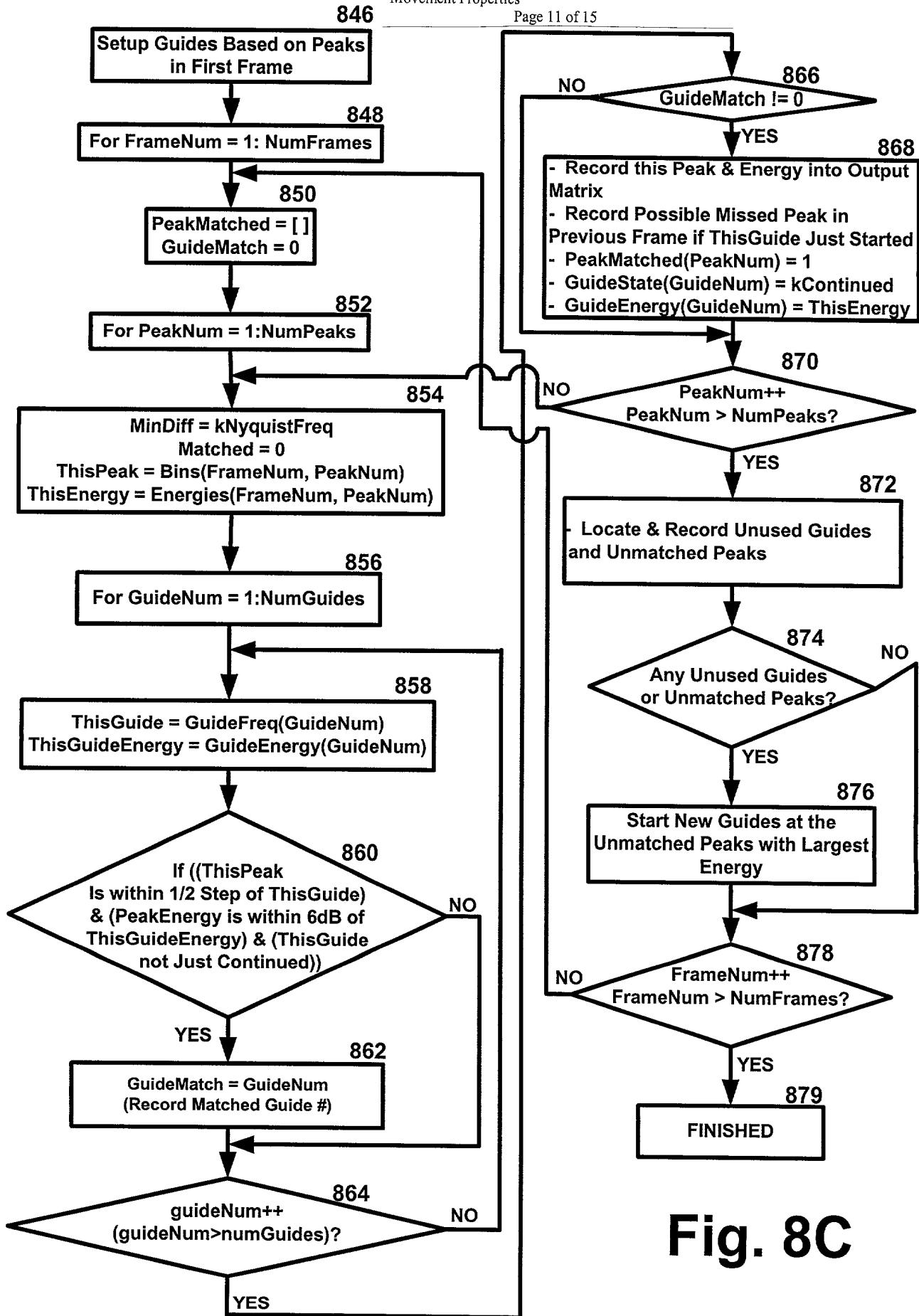
FrameNum++  
FrameNum > NumFrames?

NO

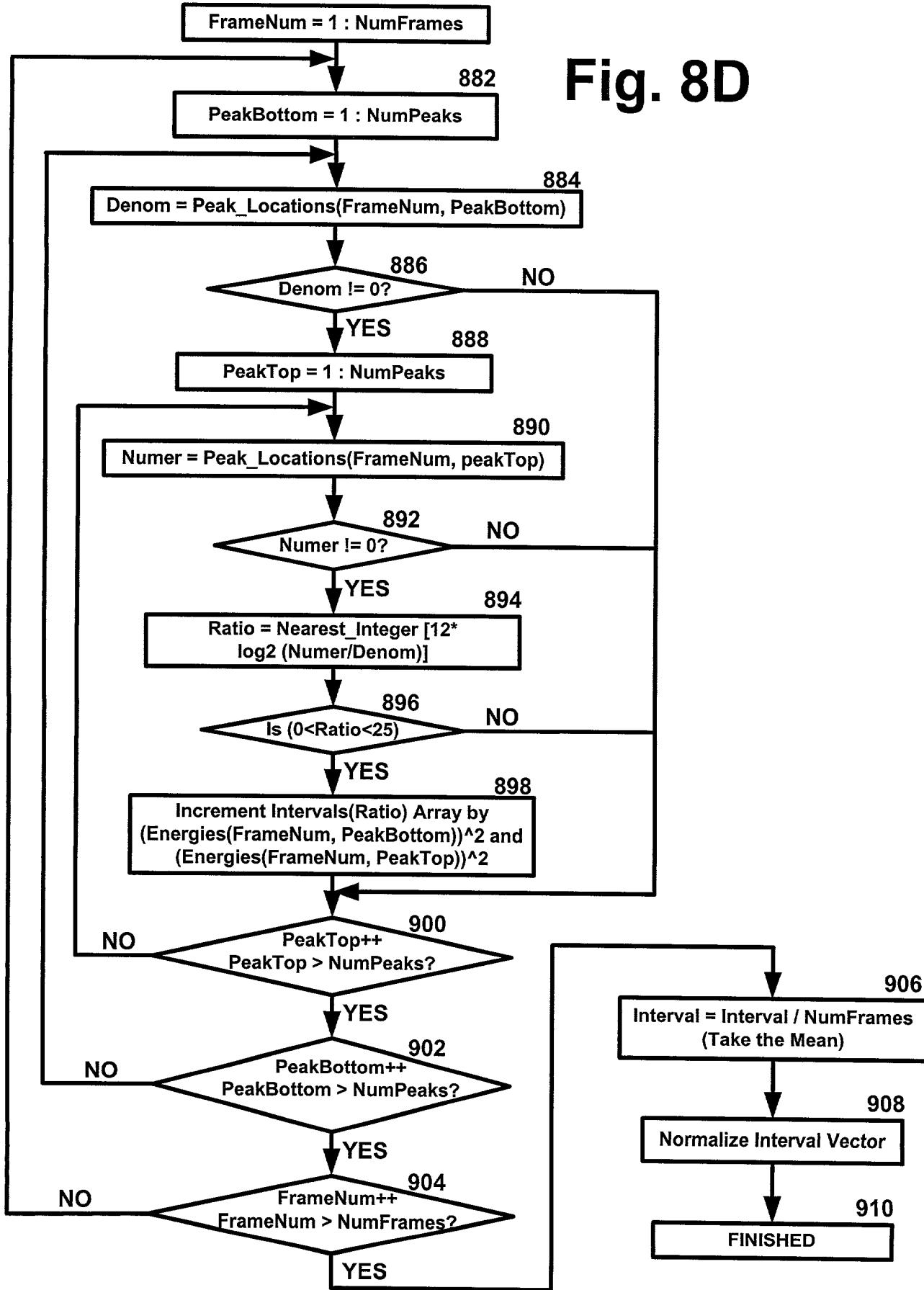
YES

844

FINISHED



**Fig. 8C**



**Fig. 9A**

